SINGLE FAMILY ATTACHED DWELLINGS

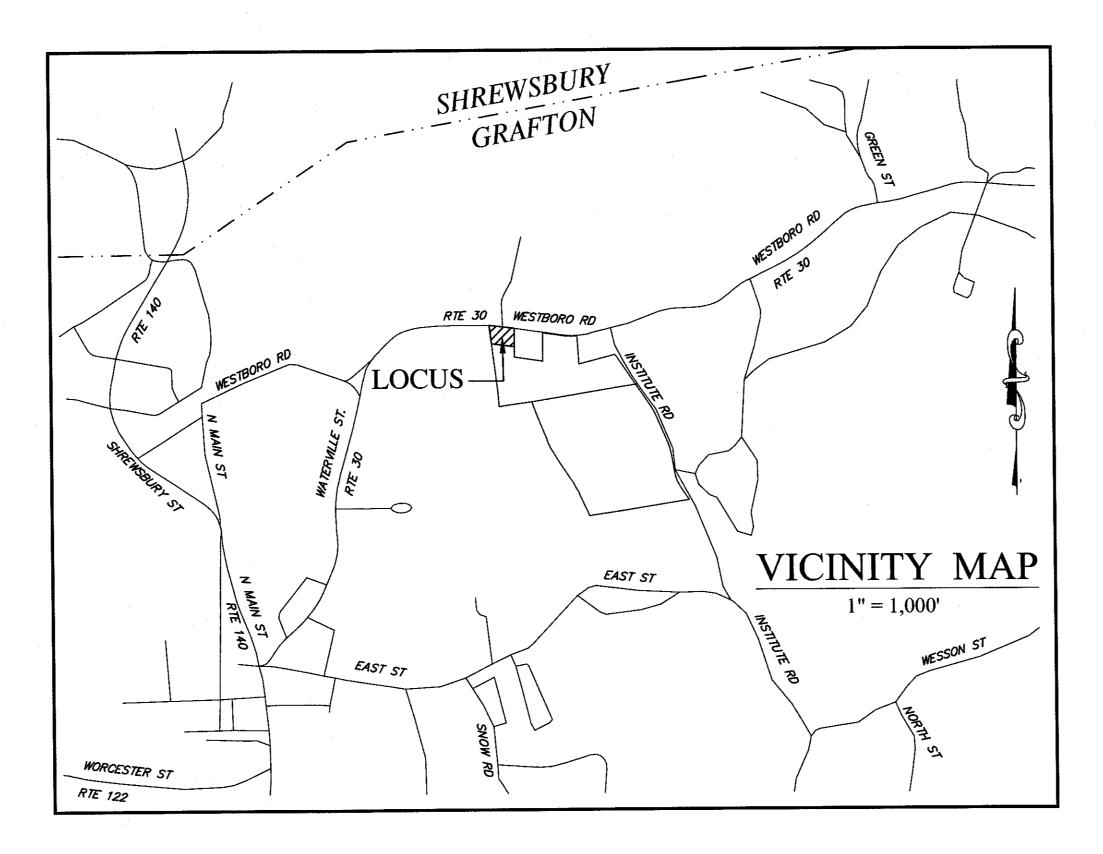
TOWN HOUSES

GRAFTON, MA

INDEX

- 1. COVER SHEET
- 2. OVERALL EXISTING CONDITIONS
- 3. EXISTING CONDITIONS/PROPOSED LAYOUT
- 4. UTILITY & GRADING PLAN
- 5. EROSION CONTROL/ LANDSCAPING PLAN
- 6. PHOTOMETRIC PLAN (BY OTHERS)
- 7. CONSTRUCTION DETAILS
- 8. CONSTRUCTION DETAILS

ARCHITECTURAL DRAWINGS



WAIVER REQUEST

1. REQUEST A WAIVER FROM SECTION 12.9.2 LANDSCAPING TO ALLOW AN EXPERIENCED IN-HOUSE SITE PLANNER TO DESIGN GENERAL LANDSCAPING PLACEMENT WHERE A REGISTERED LANDSCAPE ARCHITECT IS REQUIRED.

NOTES

- 1. THIS PLAN REFERS TO THE TOWN OF GRAFTON ASSESSORS MAP 12 PORTION OF LOT 22. 2. THIS PLAN REFERS TO DEED RECORDED IN THE WORCESTER COUNTY REGISTRY OF DEEDS AS BOOK 34122 PAGE 57.
- 3. THIS IS NOT A RECORD PLAN. OFFSETS ARE NOT FOR THE REPRODUCTION OF PROPERTY
- 4. A SPECIAL FLOOD HAZARD ZONE (F.E.M.A.) IS NOT APPLICABLE. SEE COMMUNITY PANEL 25027 C0827E, DATED: JULY 4, 2011.
- 5. THIS SITE IS WITHIN THE GRAFTON WATER SUPPLY PROTECTION OVERLAY DISTRICT.
- 6. THIS SITE IS NOT LOCATED WITHIN NATURAL HERITAGE ENDANGERED SPECIES AREA.
- 7. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD, ANY DISCREPANCY WITH THE PLANS SHOULD BE REPORTED TO THE DESIGN ENGINEER UPON
- 8. ALL STRIPING AND SIGNAGE TO CONFORM TO THE LATEST EDITION OF "MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES"
- 9. THE ARCHITECT WILL PROVIDE PLANS AND CALCULATIONS FOR FIRE PROTECTION IF
- 10. THE OWNER/APPLICANT SHALL LIMIT CONSTRUCTION DEBRIS AND MATERIALS ON THE SITE. IN THE EVENT THAT DEBRIS IS CARRIED ONTO THE PUBLIC WAY, THE OWNER/ APPLICANT SHALL BE RESPONSIBLE FOR ALL CLEANUP OF THE ROADWAY.
- 11. ALL EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION COMMENCEMENT.
- 12. SEE PLAN BY GUERRIERE AND HALNON, INC. ENTITLED 'MIXED USE DEVELOPMENT AFONSO VILLAGE' PLAN OF LAND PARCEL D IN GRAFTON , MA. APPROVED BY THE GRAFTON PLANNING BOARD AND ENDORSED ON DECEMBER 18, 2020.

GRAFTON PLANNING BOARD

BEING A MAJORITY

APPROVED DATE:

SIGNATURE DATE:

NOTES CONSTRUCTION ON THIS LOT IS SUBJECT TO

ANY EASEMENTS, RIGHTS-OF-WAY,

THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING "DIG SAFE" 1-888-DIG-SAFE

(1-888-344-7233). EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

OWNER / APPLICANT

D&F AFONSO BUILDERS, INC. **189 MAIN STREET** MILFORD, MA 01757

COVER SHEET

AFONSO VILLAGE II

SINGLE FAMILY ATTACHED DWELLINGS

SITE PLAN

GRAFTON, MA

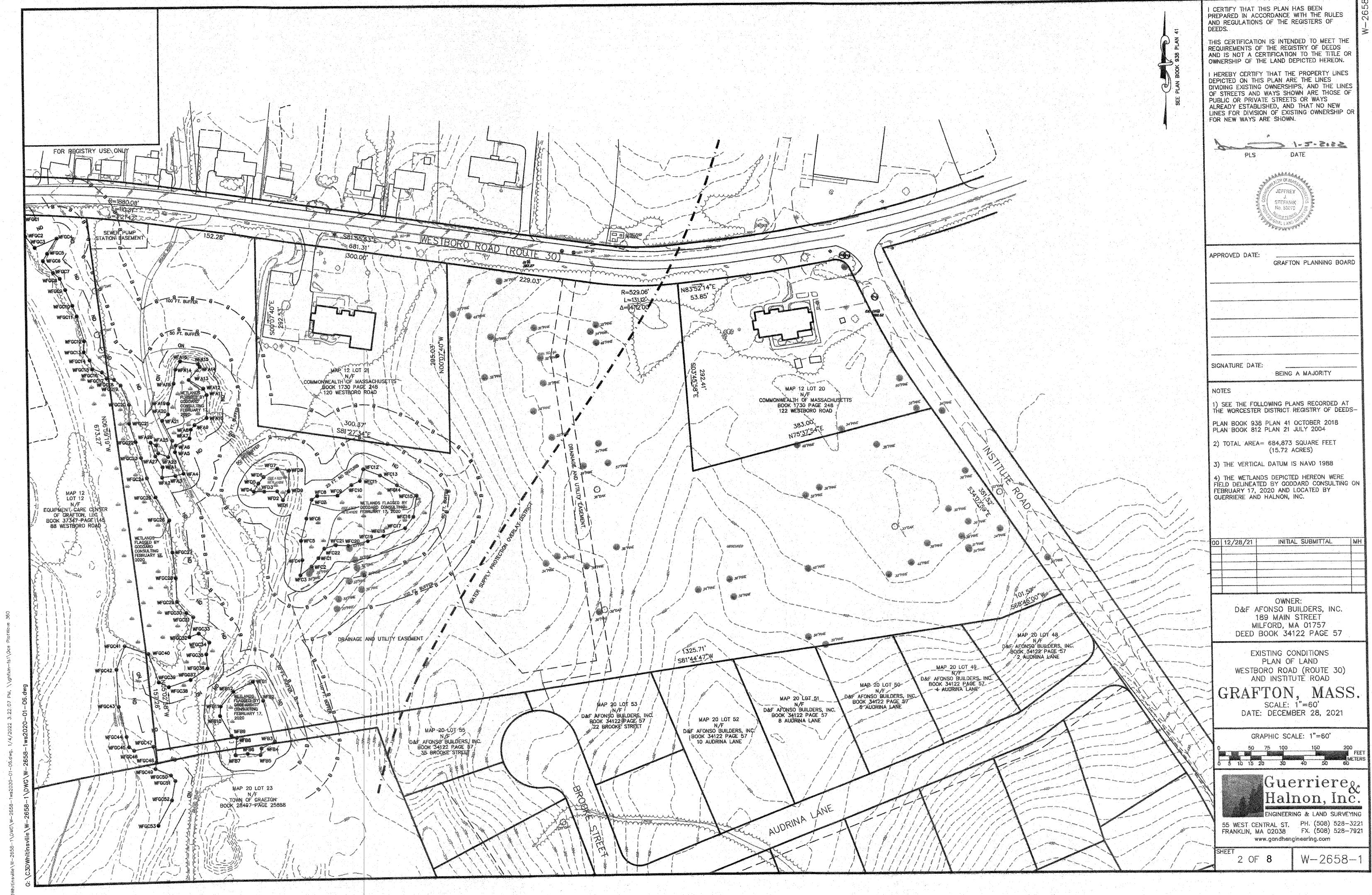
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www.gandhengineering.com SHEET

W - 26581 OF 8



TESTING INFORMATION

TESTING DATE: FEBRUARY 25, 2021 SOIL EVALUATOR: MICHAEL HASSETT

3 63.15	TP 1		364.15	TP 2		363.06	TP 3	1
	SANDY	0"-12"		SANDY LOAM	0"-12"	362 <u>.06</u>	FILL	0"-12" A
362.15		Α	363 <u>.15</u>	10YR3/2	Α	358.06	FILL	12"-60 B
3 <u>54.65</u>	SANDY LOAM 10YR5/6	12"-102" B/C		STRATIFIED	12"—96"		STRATIFIED SAND	
·	SAND AND GRAVEL	102"-108"		AND GRAVEL			AND GRAVEL	60"-90
354.15	10YR5/4	С	356.15	10YR5/4	С	355.56	10YR5/4	<u>c</u>
	NDING WATE	1		NO MOTTLE NO REFUSA		STA	ANDING WA	TER 87"

1) SEE THE FOLLOWING PLANS RECORDED AT THE

(1.05 ACRES)

4) THE WETLANDS DEPICTED HEREON WERE FIELD

FEBRUARY 17, 2020 AND LOCATED BY GUERRIERE

WORCESTER DISTRICT REGISTRY OF DEEDS-

PLAN BOOK 938 PLAN 41 OCTOBER 2018

2) TOTAL AREA= 45,880± SQUARE FEET

3) THE VERTICAL DATUM IS NAVD 1988

AND HALNON, INC.

DÉLINEATED BY GODDARD CONSULTING ON

PLAN BOOK 812 PLAN 21 JULY 2004

NOTES

	363.38	TP 4	
12"	362.38	SANDY LOAM 10YR3/2	0"-12" A
-60" 	358.38	SANDY LOAM 10YR5/6	12"-60 в
-90"		STRATIFIED SAND AND GRAVEL	60"-96
	355.38	10YR5/4	С
37 "	W	EEPING @ 9	90"

ZONING REQUIREMENTS - VILLAGE MIXED USE-TRANSIT VILLAGE (VMU-TV)

GENERAL RESIDENTIAL DEVELOPMENT (GRD) WATER SUPPLY PROTECTION OVERLAY DISTRICT (WSPOD)

8 RESIDENTIAL TOWN HOUSES PROPOSED

1 SPACES EACH PROVIDED WITHIN DRIVEWAY= 8 SPACES 1 SPACES EACH PROVIDED WITHIN GARAGE = 8 SPACES

IMPERVIOUS COVERAGE

STRUCTURE (BUILDING FOOTPRINT) AREA = 9,024±SF. (19.7%)

IMPERVIOUS (PAVEMENT/SIDEWALK) AREA=8,556±SF. (18.6%)

TOTAL IMPERVIOUS COVERAGE = $17,580\pm SF$. (38.3%)

2 SPACES PER UNIT REQUIRED

16 PARKING SPACES REQUIRED 16 PARKING SPACES PROVIDED

TOTAL LOT AREA=45,880±SF

MINIMUM AREA MINIMUM FRONTAGE MINIMUM FRONT YARD MINIMUM SIDE YARD MINIMUM REAR YARD MAXIMUM BUILDING COVERAGE WITH PAVEMENT*	REQUIRED 20,000SF. 80 FT. 0 FT. 15 FT. 15 FT.	PROPOSED 45,880±SF. 262.59' 16.2' 21.4' 22.5'	
WITH PAVEMENT* MAXIMUM BUILDING HEIGHT	75% 35FT.	36.3% 35'	

*IMPERVIOUS COVERAGE OVER 25% OR 5,000 SF (WHICHEVER IS GREATER) MUST BE APPROVED BY THE INSPECTOR OF BUILDINGS AFTER CONSULTATION WITH THE TOWN ENGINEER AND CONSERVATION COMMISSION.

TOWN HOUSES ALLOWED:

APPROX. AREA= 45,880 (1.05 AC.±) BY-RIGHT 8 UNITS PER ACRE= 8 UNITS OWNER / APPLICANT

D&F AFONSO BUILDERS, INC. 189 MAIN STREET MILFORD, MA 01757

GRAFTON PLANNING BOARD

BEING A MAJORITY

EASEMENTS DEPICTED HEREON SHALL BE

ANNOTATED AND DOCUMENTED BY THE RECORDING OF AN 81X PLAN AT THE REGISTRY

OF DEEDS UPON TOWN APPROVAL.

NOTES

CONSTRUCTION ON THIS LOT IS SUBJECT TO

LIMITATIONS WHICH MAY BE REVEALED BY AN

"WARNING" EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN

AS OBTAINED FROM EXISTING INFORMATION

AND ARE ONLY APPROXIMATE IN LOCATION

THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING

UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL

(1-888-344-7233). EXISTING LINES OTHER

THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS

WARNED TO PROCEED WITH CAUTION WITH ALL

WORK, ESPECIALLY EXCAVATION WORK, AND

TO MAKE ALL POSSIBLE INVESTIGATIONS AS

TO POSSIBLE UNMARKED UTILITY LINES.

ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER

EXAMINATION OF THE TITLE.

"DIG SAFE" 1-888-DIG-SAFE

EXISTING CONDITIONS AND PROPOSED LAYOUT

AFONSO VILLAGE II

SINGLE FAMILY ATTACHED DWELLINGS

SITE PLAN

GRAFTON, MA

00 12/28/21 INITIAL SUBMITTAL

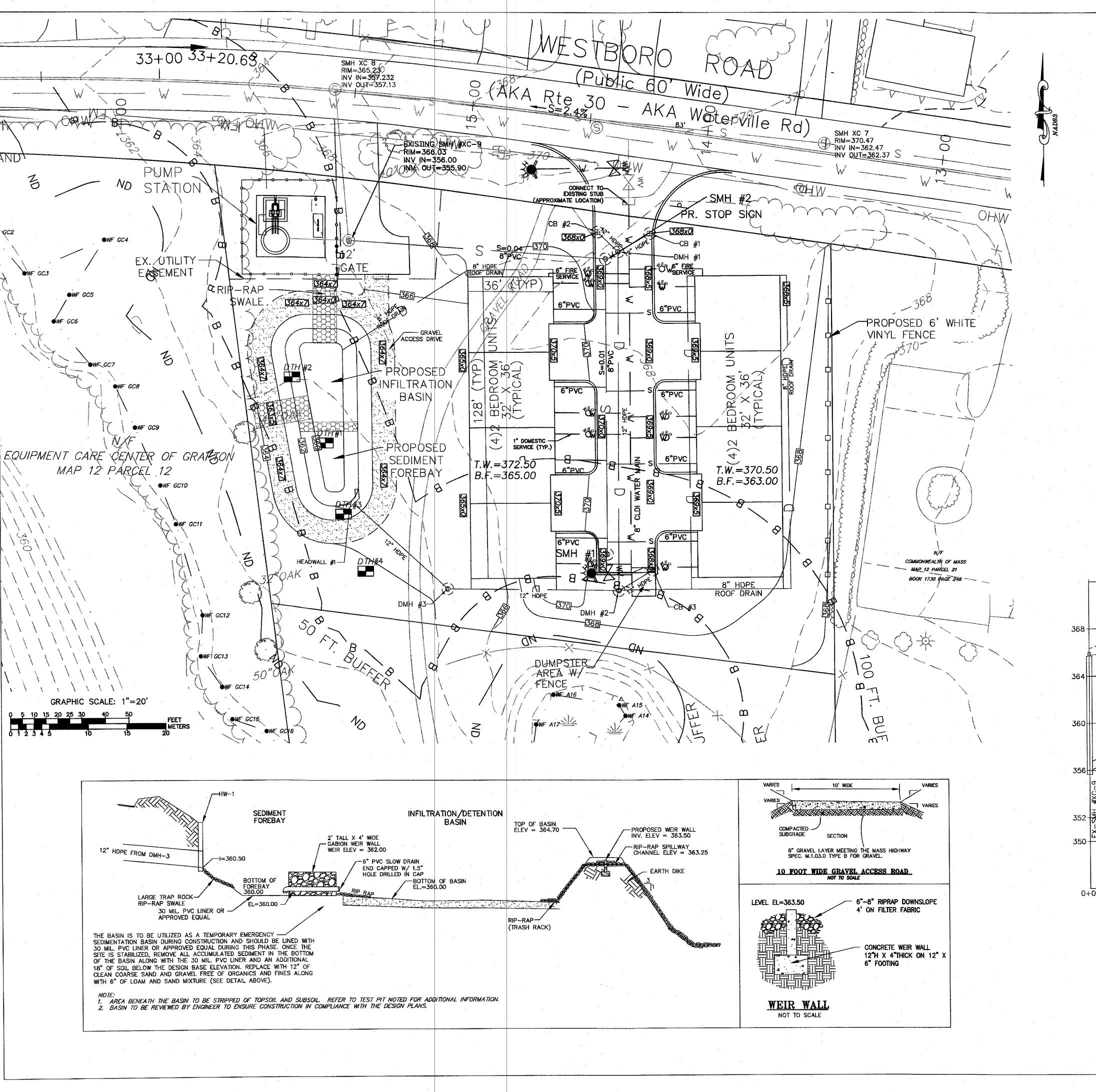
GRAPHIC SCALE: 1"=40'

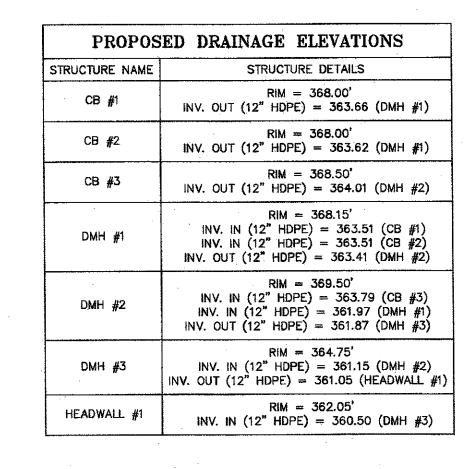


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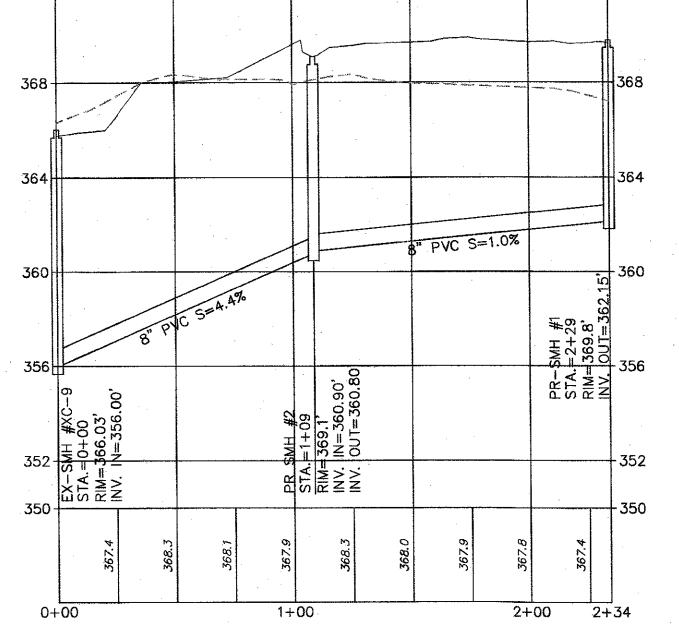
W - 2658

3 OF 8





PROP	OSED SEWER ELEVATIONS
STRUCTURE NAME	STRUCTURE DETAILS
EX SMH #XC-9	RIM = 366.03' INV. IN (8" PVC) = 356.00 (PR SMH #2)
PR SMH #1	RIM = 369.80' INV. OUT (8" PVC) = 362.15 (PR SMH #2)
PR SMH #2	RIM = 369.10' INV. IN (8" PVC) = 360.90 (PR SMH #1) INV. OUT (8" PVC) = 360.80 (EX SMH #XC-9



SEWER PROFILE

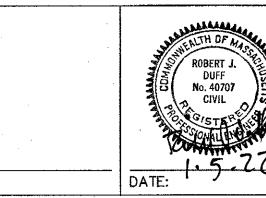
0+00 TO 2+33.93

SCALE: 1"=40' HORIZONTAL, 1"=4' VERTICAL

UTILITY NOTE:

1. COORDINATION WITH THE ELECTRIC COMPANY TO CONFIRM LOCATION AND SIZE SHALL BE ADDRESSED AT THE TIME OF CONSTRUCTION.

2. WATER TIE IN PER TOWN OF GRAFTON WATER DISTRICT REQUIREMENTS & PERMITS.



GRAFTON PLANNING BOARD

SIGNATURE DATE:

APPROVED DATE:

BEING A MAJORITY

LEGEND:

EXISTING TREELINE

EXISTING STONEWALL

X X PROPOSED SILT FENCE

PROPOSED UNDER DRAIN

PROPOSED SLOPED GRANITE CURB
PROPOSED VERTICAL GRANITE CURB
PROPOSED HEADWALL
PROPOSED FLRED END SECTION

PROPOSED FLRED END SET

PERC TEST

DEEP TEST HOLE

PROPOSED

S SEWER LINE SEWER LINE SEWER MANHOLE SEWER

CATCH BASIN

DBL. CATCH BASIN

FIRE HYDRANT

WATER VALVE

WATER VALVE M

UTILITY POLE

POLE W/LIGHT

WATER SHUT OFF

T.O.C. TOP OF CONCRETE
B.F. BASEMENT FLOOR
T.W. TOP OF WALL
S.L. SLAB

HIGH DENSITY POLYETHYLENE PIPE
PVC POLYVINYL CHLORIDE PIPE
MCC MODIFIED CAPE COD BERM
VGC VERTICAL GRANITE CURB
PROPOSED 6 FT. PVC FENCE

OWNER / APPLICANT

D&F AFONSO BUILDERS, INC. 189 MAIN STREET MILFORD, MA 01757

UTILITIES
AND GRADING PLAN

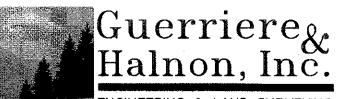
AFONSO VILLAGE II

SINGLE FAMILY ATTACHED DWELLINGS

SITE PLAN

GRAFTON, MA

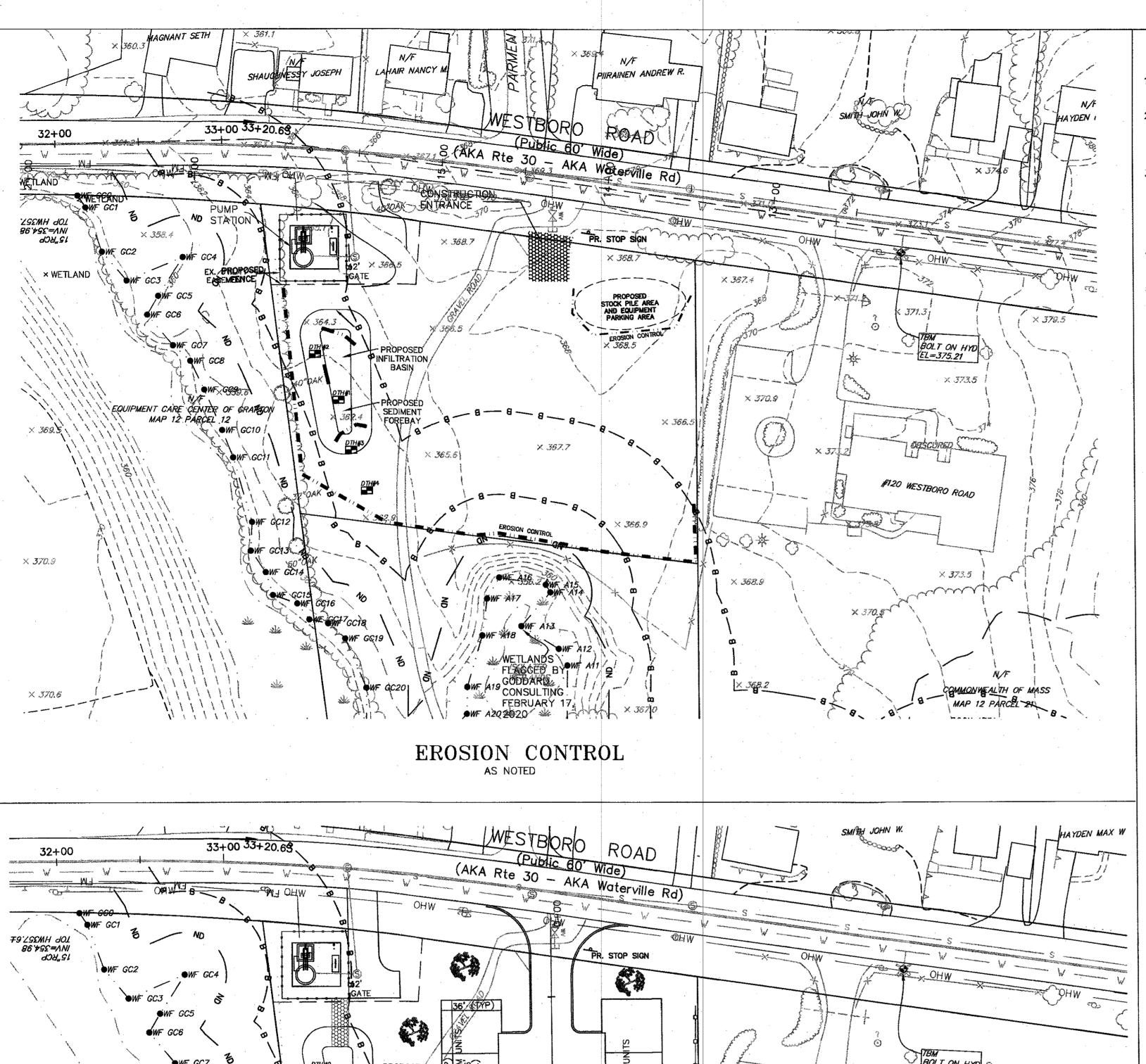
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SHEET 4 OF 8 W-2658



#120 WESTBORO ROAD

100*

- PROPÓSÉD SEDIMENT FOREBAY

LANDSCAPING PLAN

AS NOTED

EQUIPMENT CARE CENTER OF GRAPSON MAP 12 PARCEL 12

₩F GC1.

EROSION CONTROL NOTES:

1. RECORD ORDER OF CONDITIONS — THE SITE SUPERINTENDENT SHALL BE AWARE OF ALL THE CONDITIONS CONTAINED WITHIN THE ORDER INCLUDING INSPECTION SCHEDULES. INSTALL DEP FILE # SIGNS ON SITE.

2. PRIOR TO ANY WORK ON THE SITE INCLUDING TREE/BRUSH CLEARING, THE APPROVED LIMIT OF CLEARING AS WELL AS THE LOCATION OF THE PROPOSED EROSION CONTROL DEVICES (SUCH AS SILT FENCE/STRAW BALES, ETC.) MUST BE STAKED ON THE GROUND UNDER THE DIRECTION OF A MASSACHUSETTS REGISTERED PROFESSIONAL LAND SURVEYOR.

3. ALL SILTATION BARRIERS SHOWN ON THE PLANS WILL BE INSTALLED PRIOR TO ANY DISTURBANCE. MULCH SOCK BARRIERS WILL BE INSTALLED PER DETAILS ON THE EROSION CONTROL PLAN AND THE PROJECT ORDER OF CONDITIONS. EROSION CONTROLS TO BE INSPECTED BY THE GRAFTON CONSERVATION COMMISSION OR ITS APPROVED AGENT. EROSION CONTROLS MAY BE INSTALLED IN AREAS WHERE EROSION IS NOTED OR CAN BE ANTICIPATED DUE TO EVOLVING SITE CONDITIONS.

4. MULCH SOCKS, HAYBALES AND STAKES SHALL BE STORED ON SITE OUTSIDE OF JURISDICTIONAL AREAS TO BE USED IN CASE OF AN EMERGENCY (LARGE

5. SOIL STOCKPILE AREAS WILL BE PREPARED AS INDICATED ON THE PLAN.
NECESSARY EROSION CONTROLS INCLUDING SILTATION BARRIERS WILL BE
INSTALLED AS SHOWN ON THIS PLAN AND AS NEEDED.

6. SLOPE AREAS THAT WILL BE OPEN FOR LONGER THAN 14 DAYS SHALL BE LOAMED AND SEEDED OR STABILIZED. GRASS SHALL BE WATERED AS NEEDED.

7. TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED PRIOR TO MAJOR EARTH MOVING ACTIVITIES. MEASURES SUCH AS STONE BERMS, SWALES, HAY BALE DIKES, ETC. SHALL BE INSTALLED TO FACILITATE RUNOFF FLOW TOWARD THE TEMPORARY BASINS.

8. THE PROPOSED STORMWATER BASIN SHALL BE USED AS A TEMPORARY SEDIMENT BASIN DURING ROADWAY CONSTRUCTION. DURING CONSTRUCTION EXCAVATE THE POND TO 6" ABOVE FINISHED GRADE AND DO NOT INSTALL RIP RAP FOREBAY BERM. AFTER THE SITE IS STABILIZED, EXCAVATE THE POND TO FINISH GRADE, INSTALL FINISH GRADE MATERIAL AND INSTALL RIP RAP BERM.

9.THE CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE ANY REQUIRED INSPECTIONS OF HIS/HER WORK.

10.EROSION CONTROLS SHALL BE INSPECTED ON A DAILY BASIS. EROSION CONTROLS SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, THEY SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

11. BUILT UP SEDIMENT SHALL BE REMOVED FROM THE EROSION CONTROLS WHEN IT HAS REACHED 1/3 OF THE HEIGHT OF THE BARRIER, OR AS

NECESSARY.

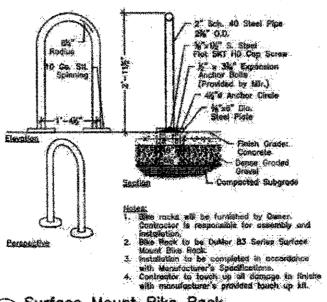
12. A COPY OF THIS CONSTRUCTION SEQUENCING AND PHASING PLAN SHALL

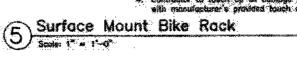
PER AVAILABLE ON SITE FOR REFERENCE AT ALL TIMES.

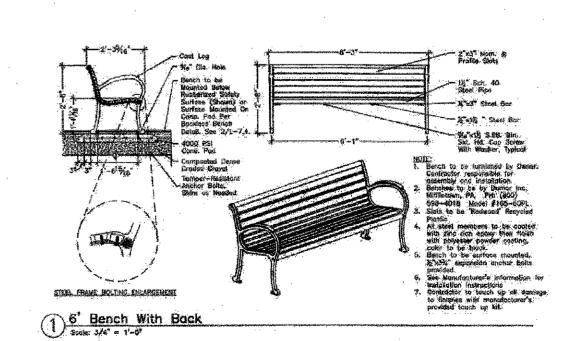
BE AVAILABLE ON SITE FOR REFERENCE AT ALL TIMES.

13. ALL DISTURBED AREAS OUTSIDE OF LAWNS AREAS TO BE SEEDED WITH A CONSERVATION SEED MIX.

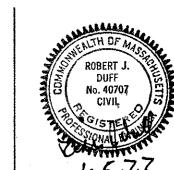
14.DURING DRY PERIODS DUST CONTROL MEASURES SHOULD BE IMPLEMENTED. IRRIGATION IS COMMONLY USED AND AFFORDS FAST PROTECTION FOR HAUL ROADS AND OTHER HEAVY TRAFFIC ROADS. THE SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. CALCIUM CHLORIDE CAN BE APPLIED AT A RATE THAT WILL KEEP THE SURFACE MOIST. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIED RATES







	PLANTING LEGEND		
MBOL	NAME	SIZE	QUANTITY
	SHADE TREES: SUGAR MAPLE PIN OAK NORTHERN RED OAK REDMOND LINDEN WHITE ASH	4' MIN. 2.5" CAL.	5



GRAFTON PLANNING BOARD

DATE:

BEING A MAJORITY

DATE:

DATE

APPROVED DATE:

SIGNATURE DATE:

•

APPROX. AREA= 45,880±SF. (1.05ACS±) BY-RIGHT 8 UNITS PER ACRE= 8 UNITS

NOTE:

NOTES

1. CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

2. "WARNING" EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233). EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS

THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

OWNER / APPLICANT

D&F AFONSO BUILDERS, INC. 189 MAIN STREET MILFORD, MA 01757

EROSION CONTROL
AND LANDSCAPING PLAN

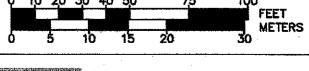
AFONSO VILLAGE II

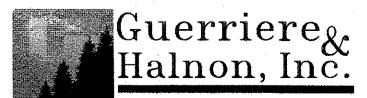
SINGLE FAMILY ATTACHED DWELLINGS

SITE PLAN

GRAFTON, MA

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	GRA	PHIC SCALE: 1"=40'	

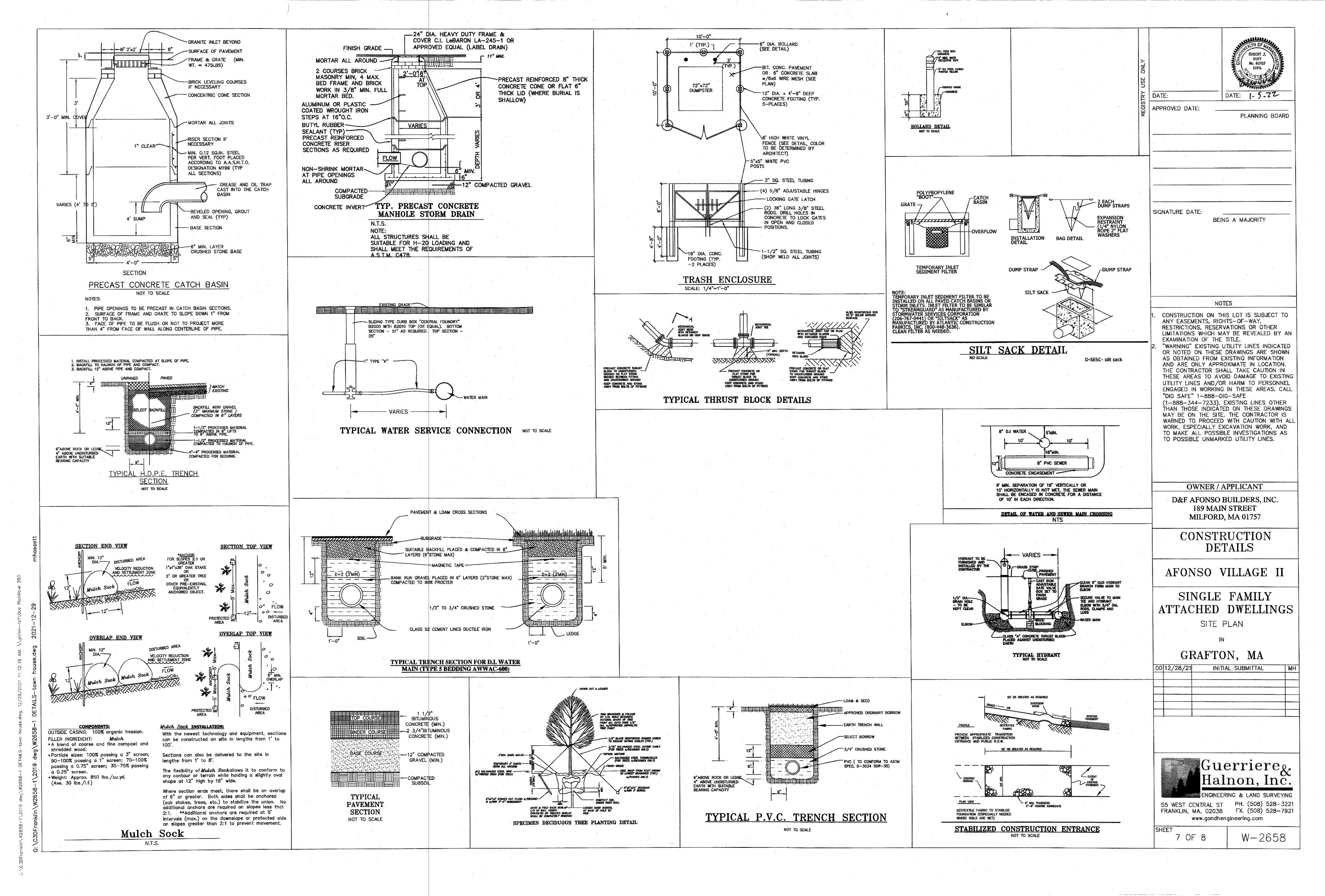


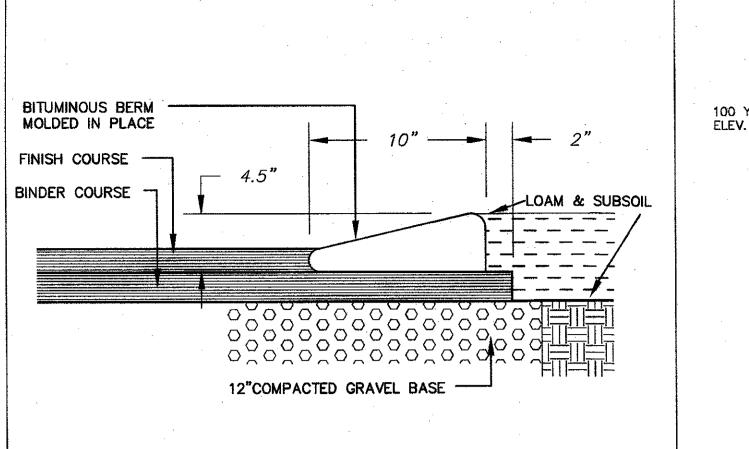


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SHEET 5 OF 8

W-2658





MODIFIED BITUMINOUS CAPE COD

BERM DETAIL

N.T.S.

10'-0" CREST CREST ELEV. =364.50 100 YEAR FLOOD ELEV. =363.70PERMEABILITY FILL (SEE NOTE 3)

SECTION

EARTH DIKE NOT TO SCALE

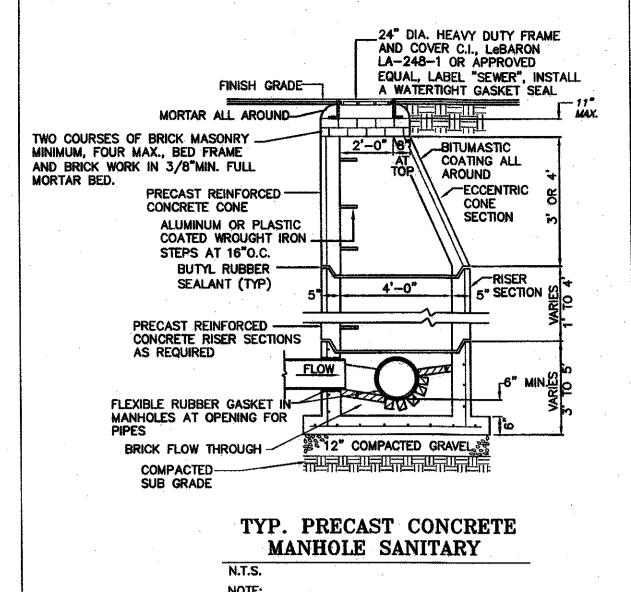
1. ALL WORK TO BE STAKED AND INSPECTED BY THE DESIGN ENGINEER.

2. AREA UNDER THE EMBANKMENT AND ANY STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

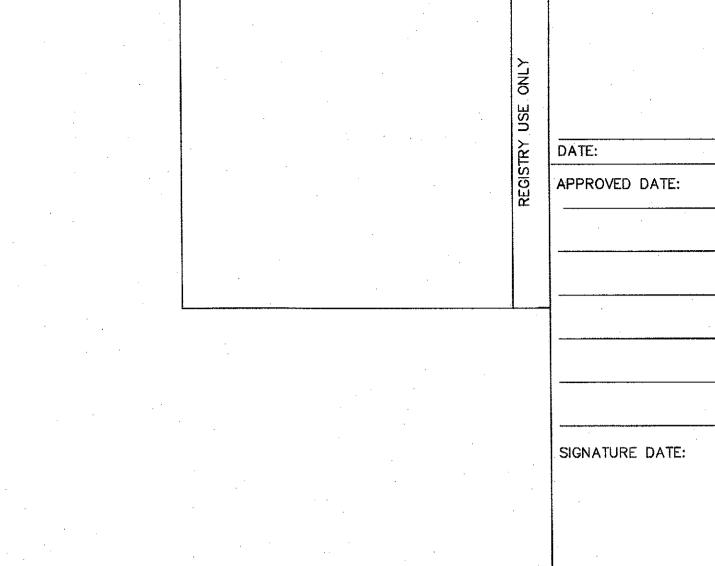
3. COMPACTED LOW PERMEABILITY FILL MATERIAL SHALL BE WELL GRADED, SILT GRAVELLY SAND WITH A MINIMUM OF 15% PASSING SIEVE #200, AND SHALL BE FREE OF STONES GREATER THAN 6" IN DIAMETER, ORGANIC MATTER, CONSTRUCTION DEBRIS, SNOW OR FROZEN SOIL. MATERIALS SHALL BE PLACED IN LAYERS NOT EXCEEDING 8" IN THICKNESS, AND SHALL BE COMPACTED BY CONTINUOUS PASSES OF HEAVY DOZERS, HAULING EQUIPMENT AND APPROPRIATE COMPACTORS. MINIMUM DEGREE OF COMPACTION SHALL BE 95% OF MAXIMUM DRY DENSITY AS SPECIFIED BY A.S.T.M. D 1556 C.

4. THE EMBANKMENT WILL BE CONSTRUCTED TO THE DESIGN ELEVATION PLUS 0.5 FT. TO ALLOW FOR SETTLEMENT.

5. S.C.S. APPROVED SEED MIX TO BE SPREAD AS SOON AS IS PRACTICAL TO MINIMIZE



ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF



DATE: 1.5-72

PLANNING BOARD

BEING A MAJORITY

NOTES

CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

"WARNING" EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233). EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS

MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

OWNER / APPLICANT

D&F AFONSO BUILDERS, INC. 189 MAIN STREET MILFORD, MA 01757

CONSTRUCTION **DETAILS**

AFONSO VILLAGE II

SINGLE FAMILY ATTACHED DWELLINGS

SITE PLAN

GRAFTON, MA

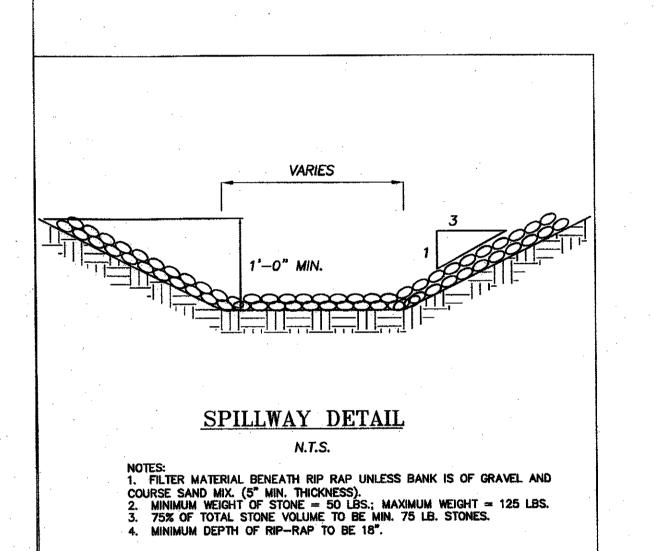
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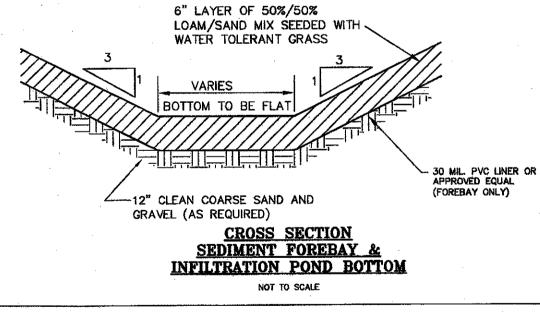
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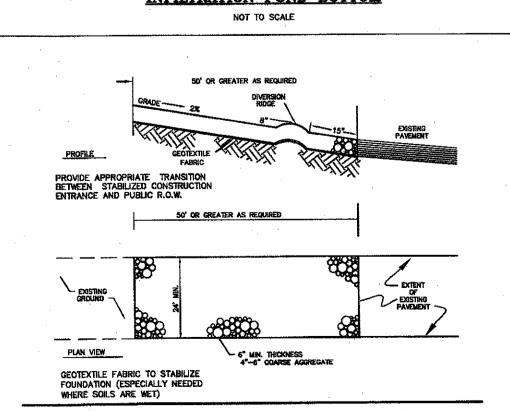
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FRANKLIN, MA. 02038 FX. (508) 528-7921 www.gandhengineering.com

W - 2658







6" PVC-SLOPE=1/4"/FT. MIN. TYPICAL PVC SEWER SERVICE CONNECTION

HEADWALL DIMENSIONS

 $oxed{D} oxed{E} oxed{F} oxed{G} oxed{H} oxed{J} oxed{K}$

30" 42" 66" 15" 39" 42" 66'

36" 48" 72" 18" 48" 54" 90"

E4 x 5.4 CHANNEL

BOLTED TO HEADWALL

GALVANIZED COATING

-1/2" 0 THRU BOLTS MIN. OF 3

PER CHANNEL

TYP. CONCRETE HEADWALL DETAIL

NOTE: DEBRIS GRATE REQUIRED ON ALL PIPES

WITH A DIAMETER GREATER THAN 36"

-12" MIN. GRAVEL

1-1/2" CLEAR

"B-B" SECTION

CLASS "A"

CEMENT

CONCRETE

THE DESIGN ENGINEER. THE DETENTION/RETENTION POND SHALL BE CONSTRUCTED OF CLEAN OR CONSTRUCTION WASTE OF ANY KIND. 3. THE RIPRAP SHALL BE PLACED ON 3-5" CRUSHED STONE.
4. THE SURFACE OF THE RIPRAP SHALL BE AS SMOOTH AS POSSIBLE

ALL SLOPES TO BE LOAMED AND SEED EXCEPT WHERE SPECIFIED RIPRAP & STONE FOR PIPE ENDS TO MEET MASS. D.P.W. SPECIFICATIONS M2.02.3.

AND GRAVEL FREE OF ORGANICS AND FINES ALONG WITH 6" OF LOAM AND SAND MIXTURE (SEE DETAIL).

STONE CONSTRUCTION ENTRANCE

ALL CONSTRUCTION TO BE PERFORMED UNDER STRICT SUPERVISION OF

DENSE MATERIAL (TILL) FREE OF STUMPS, LUMBER, LARGE BOULDERS

THE BASIN SIDE SLOPE & BOTTOM SHALL BE PROVIDED WITH SIX INCHES OF LOAM/SEED AND SAND MIXTURE AT THE RATE OF TWO POUNDS RED TOP, FIFTEEN POUNDS CREEPING RED FESCUE AND TWENTY POUNDS TALL FESCUE PER ACRE AT NO TIME SHALL A SEED MIX CONSIST OF MORE THAN TEN PERCENT ANNUAL RYES.
THE SEDIMENT FOREBAY IS TO BE UTILIZED AS A TEMPORARY SEDIMENTATION BASIN DURING CONSTRUCTION. ONCE THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT IN THE BOTTOM OF THE FOREBAY ALONG WITH AN ADDITIONAL 18" OF SOIL BELOW THE DESIGN BASE ELEVATION: REPLACE WITH 12" OF CLEAN COARSE SAND GENERAL NOTES:

1. THERE ARE NO ESTIMATED OR PRIORITY HABITAT AREAS, AS DEFINED BY THE 2008 N.H.E.S.P. MAPS, WITHIN THE PROJECT AREA.

2. ALL STRUCTURES AND UTILITIES SHOWN ARE PROPOSED UNLESS OTHERWISE NOTED.

3. IT IS THE CONTRACTOR'S / DEVELOPER'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION AND THE SITE IS STABILIZED.

4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF GRAFTON RULES AND REGULATIONS AND MASSACHUSETTS HIGHWAY STANDARD SPECIFICATIONS.

5. A MINIMUM OF 4" OF TOPSOIL IS TO BE REDISTRIBUTED ON SITE EXCEPT WITHIN ROADWAYS.

6. UNITS TO BE SERVICED BY TOWN WATER AND SEWER.

DRAINAGE NOTES:

1. DRAINAGE PIPING TO BE HDPE. 2. MINIMUM PIPE SLOPE SHALL BE 0.005 FT/FT (0.50%).

3. MINIMUM PIPE DIAMETER SHALL BE 12 INCHES. UNLESS OTHERWISE SHOWN, ALL CATCH BASIN LATERALS SHALL BE 12 INCHES IN DIAMETER. **EROSION CONTROL NOTES:**

1. TAKE EVERY PRECAUTION TO MINIMIZE AND CONTROL EROSION WITHIN THE PROJECT AREA.

2. STOCKPILES OF EXCAVATED MATERIALS AND EXPOSED CUT AND FILL SLOPES SHALL BE KEPT TO MINIMUM GRADIENTS WHENEVER POSSIBLE. THESE AREAS SHALL BE PROTECTED WITH HAY, MULCH, GRASS SEED OR COMBINATION OF THE ABOVE TO SLOW DOWN THE RATE OF SURFACE RUN-OFF AND TO REDUCE THE VOLUME OF SUSPENDED SOLIDS IN THE RUN OFF WATER.

SILTATION BARRIERS SHALL BE STAKED IN PLACE DOWN GRADIENT FROM ALL EXPOSED AREAS OR MATERIAL STORAGE AREAS IN ORDER TO REDUCE THE AMOUNT OF SUSPENDED SOLIDS IN RUNOFF WATER. THE EXACT LOCATION OF THE SILTATION BARRIERS MAY VARY FROM THAT SHOWN ON THE PLANS AND MAY BE ADJUSTMENT IN THE FIELD AS WORK PROGRESSES. SEDIMENTATION BUILDUP OVER SIX INCHES IN DEPTH THAT ACCUMULATES BEHIND THE SILTATION BARRIERS SHALL BE REMOVED. BARRIERS SHALL BE CHECKED AFTER EVERY STORM AND AT REGULAR WEEKLY INTERVALS.

SILTATION BARRIER SHALL BE INSTALLED WITH WOODEN STAKES IN ACCORDANCE WITH MANUFACTURER DIRECTIONS. BOTTOM 6 INCHES OF FABRIC SHALL BE TOED IN OR BACKFILLED SO THAT TOP OF FABRIC SHALL BE 2 FEET 6 INCHES ABOVE FINISH GRADE.

5. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE LOAMED (4" MIN.) AND SEEDED IN ORDER TO MINIMIZE DUST AND EROSION.

6. FILTER FABRIC IS TO BE PLACED UNDER ALL RIP-RAP AREAS SHOWN ON DESIGN PLANS.

EROSION CONTROL BARRIERS ARE TO BE PLACED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

8. THE PROPOSED STORMWATER BASIN IS TO BE UTILIZED AS A SEDIMENTATION POND DURING CONSTRUCTION. IT IS TO BE CONSTRUCTED FIRST IN ORDER TO CONTROL/ PREVENT SILTATION FROM DISCHARGING FROM THE SITE AND/OR DISTURBING WETLAND AREAS.

ALL TEMPORARY SEDIMENT POND(S) AND SUMPS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION, INSPECTED PRIOR TO AND AFTER STORM EVENTS AND CLEANED AS NEEDED.

4" PVC SLOTTED RAIL 5"x 5" CAP -5"x 5" POST-4" PVC SLOTTED RAIL-PVC FENCE DETAIL

N.T.S.

"A-A" SECTION

6" CRUSHED COMPACTED EXISTING SUBGRADE CRUSHED STONE SWALE DETAIL

SHEET 8 OF 8